

Appn. No. 10/758,427

Attorney Docket No. 10541-1829

II. Listing of Claims

1. (Original) A hydraulic coupling system, comprising
 - a pump;
 - a controller;
 - a clutch assembly including an actuator and a multi-disk clutch pack coupled to the actuator, the pump pressuring a fluid in the actuator to engage the clutch pack and pumping the fluid through the clutch pack to cool the clutch pack under the direction of the controller; and
 - a valve for maintaining the fluid pumped to the actuator at a higher pressure than the pressure of the fluid pumped through the clutch pack to cool the clutch.
2. (Original) The system of claim 1 wherein the valve is pulse width modulated under the direction of the controller.
3. (Original) The system of claim 1 wherein the pump is pulse width modulated under the direction of the controller.

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4. (Original) The system of claim 1 further comprising a two-way valve which provides a preload pressure to the system when the pump is not operating and the clutch pack is disengaged.
5. (Original) The system of claim 1 further comprising a pilot valve which provides a preload pressure to the system when the pump is not operating and the clutch pack is disengaged.
6. (Original) The system of claim 1 further comprising an accumulator for compensating for fluid leakage in the system.
7. (Original) The system of claim 1 wherein the pump is a gerotor, vane or gear pump.
8. (Cancel)
9. (Cancel)